

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247797

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B1759727 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13465.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

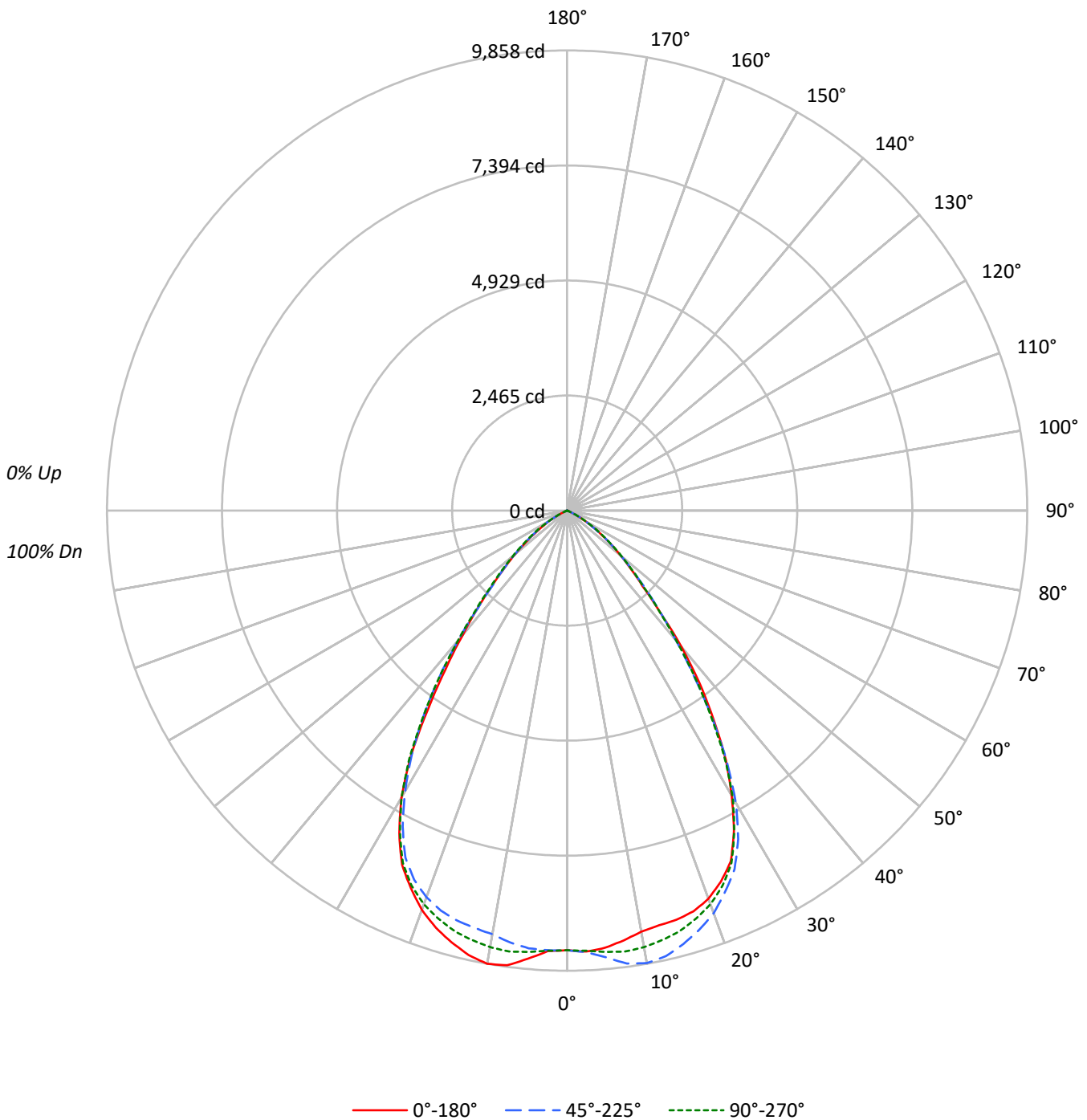
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	907.5	6.7
10°-20°	2628.3	19.5
20°-30°	3770.0	28.0
30°-40°	3326.8	24.7
40°-50°	1842.0	13.7
50°-60°	811.7	6.0
60°-70°	164.0	1.2
70°-80°	12.3	0.1
80°-90°	2.3	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7305.9	54.3
0°-40°	10632.7	79.0
0°-60°	13286.4	98.7
0°-90°	13465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9417	9417	9417	9417	9417	
5°	9401	9608	9490	9413	9636	889
15°	9075	9615	9325	9097	9574	2560
25°	8294	8480	8329	8204	8373	3747
35°	5476	5397	5358	5362	5196	3397
45°	2278	2375	2334	2247	2258	1855
55°	889	885	915	868	831	815
65°	116	124	144	130	121	159
75°	12	12	9	9	14	11
85°	9	5	2	7	3	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9417.3	9417.3	9417.3	9417.3	9417.3	9417.3	9417.3	9417.3	9417.3
2.5°	9456.6	9417.3	9469.2	9437.0	9439.3	9390.6	9429.1	9466.1	9445.6
5°	9400.8	9437.0	9607.6	9602.9	9489.7	9342.7	9412.6	9580.8	9635.9
7.5°	9285.3	9415.8	9786.0	9819.8	9529.0	9219.2	9333.2	9683.8	9823.7
10°	9159.5	9347.4	9845.0	9911.0	9496.7	9088.8	9217.7	9659.5	9858.3
12.5°	9099.0	9280.6	9776.6	9840.3	9422.8	9025.9	9156.4	9566.7	9751.4
15°	9074.6	9211.4	9614.6	9672.8	9324.6	8990.5	9096.6	9432.3	9573.8
17.5°	9000.7	9095.0	9414.2	9451.1	9168.9	8904.0	8987.3	9244.4	9367.8
20°	8850.6	8913.5	9181.5	9201.2	8974.0	8749.2	8813.6	9016.4	9100.5
22.5°	8603.0	8644.6	8842.7	8849.8	8701.2	8506.3	8559.7	8718.5	8749.9
25°	8294.0	8297.9	8480.3	8446.5	8329.4	8148.6	8204.4	8340.4	8373.4
27.5°	7738.3	7751.6	7936.3	7891.5	7753.2	7596.0	7630.6	7754.8	7787.8
30°	7048.9	7123.5	7230.4	7208.4	7089.7	6931.7	6938.8	7060.6	7096.0
32.5°	6324.1	6302.1	6357.1	6340.6	6279.3	6154.3	6195.9	6227.4	6236.0
35°	5475.9	5457.8	5397.3	5321.0	5358.0	5406.7	5361.9	5292.7	5196.0
37.5°	4660.7	4559.3	4441.4	4362.0	4493.3	4544.4	4500.4	4350.2	4272.4
40°	3796.0	3689.1	3625.4	3605.8	3645.1	3682.8	3633.3	3560.2	3483.2
42.5°	2927.4	2926.6	2942.3	2938.4	2911.7	2857.4	2818.1	2849.6	2837.0
45°	2278.1	2313.5	2374.8	2385.0	2333.9	2254.5	2246.6	2276.5	2258.4
47.5°	1854.4	1867.0	1889.0	1920.4	1891.3	1851.2	1830.8	1840.2	1823.7
50°	1495.1	1498.3	1508.5	1532.1	1521.1	1493.6	1473.9	1462.1	1455.8
52.5°	1174.4	1167.3	1175.2	1183.1	1198.0	1179.9	1163.4	1138.3	1118.6
55°	889.1	883.6	885.1	891.4	915.0	894.6	867.8	851.3	830.9
57.5°	645.4	627.3	631.2	652.5	674.5	665.8	642.2	615.5	590.4
60°	434.7	430.8	430.0	452.8	469.3	466.2	439.4	419.8	411.1
62.5°	257.1	254.7	261.0	271.2	290.9	276.7	258.6	248.4	245.3
65°	115.6	121.1	124.2	132.1	143.9	140.7	130.5	119.5	121.1
67.5°	50.3	38.5	43.2	48.7	45.6	48.0	42.4	44.8	43.2
70°	24.4	25.9	24.4	30.7	28.3	29.9	24.4	29.1	22.8
72.5°	17.3	14.9	18.9	22.0	18.9	22.0	19.7	14.9	11.8
75°	11.8	7.1	11.8	7.1	8.6	12.6	9.4	12.6	14.1
77.5°	1.6	5.5	2.4	3.1	1.6	3.9	3.9	2.4	7.1
80°	1.6	2.4	1.6	3.1	4.7	0.8	3.1	7.1	0.0
82.5°	5.5	0.0	0.8	0.0	0.8	1.6	0.0	1.6	0.0
85°	8.6	2.4	4.7	11.0	2.4	4.7	7.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)